

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P290910

Luminaire Tested: **14GR-LD5-28-F125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-28-F125-UNV-L92765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2704.0 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

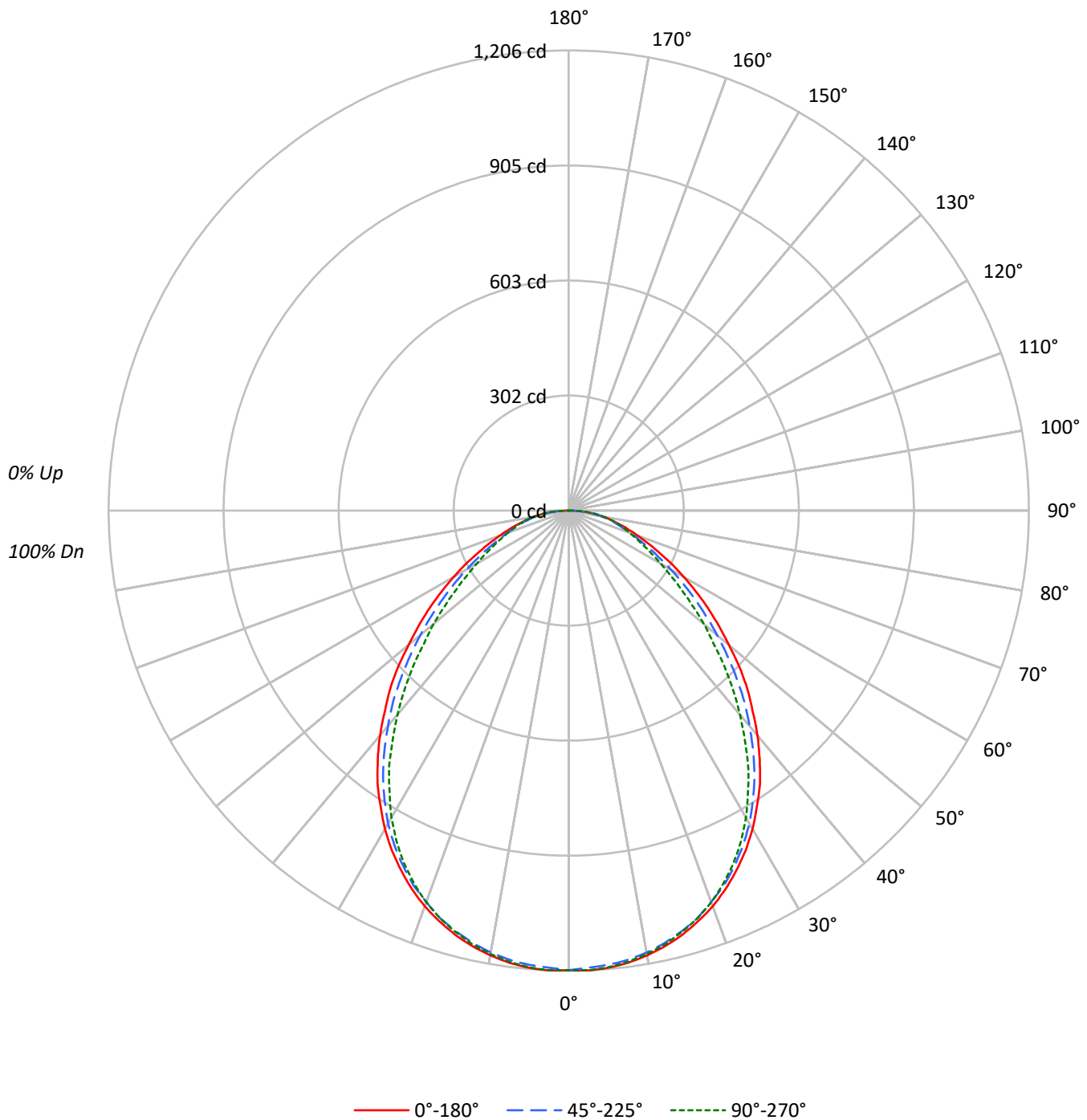
Input Watts (W): 22.878
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		81
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73
4	85	74	66	59	83	73	65	59	70	64	58		68	62	58		66
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60
6	73	60	52	46	71	60	52	46	58	51	45		56	50	45		55
7	68	55	47	41	66	54	47	41	53	46	41		51	45	40		50
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		46
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		43
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3242	3242	3242
5°	3249	3228	3245
10°	3234	3214	3224
15°	3206	3181	3186
20°	3161	3126	3128
25°	3089	3051	3030
30°	2994	2942	2887
35°	2871	2788	2696
40°	2705	2589	2452
45°	2522	2369	2193
50°	2293	2125	1937
55°	2087	1885	1688
60°	1872	1660	1499
65°	1669	1479	1378
70°	1518	1349	1334
75°	1419	1313	1379
80°	1426	1358	1437
85°	1488	1392	1587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	4.2
10°-20°	322.9	11.9
20°-30°	473.5	17.5
30°-40°	528.4	19.5
40°-50°	478.4	17.7
50°-60°	361.2	13.4
60°-70°	236.2	8.7
70°-80°	138.7	5.1
80°-90°	50.8	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	910.3	33.7
0°-40°	1438.7	53.2
0°-60°	2278.4	84.3
0°-90°	2704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2704.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1205	1205	1205	1205	1205	
5°	1203	1200	1195	1202	1201	114
15°	1151	1149	1142	1148	1144	324
25°	1040	1036	1028	1026	1021	479
35°	874	866	849	830	821	544
45°	663	652	623	589	576	509
55°	445	435	402	370	360	398
65°	262	254	232	219	216	263
75°	136	133	126	129	133	147
85°	48	46	45	51	51	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1204.6	1204.6	1204.6	1204.6	1204.6
2.5°	1206.5	1204.6	1198.9	1206.5	1205.9
5°	1202.7	1200.2	1195.1	1202.1	1201.4
7.5°	1195.1	1192.6	1187.5	1193.8	1192.6
10°	1183.7	1181.1	1176.1	1183.0	1179.9
12.5°	1169.1	1166.5	1160.8	1167.2	1164.6
15°	1150.7	1148.8	1141.8	1148.1	1143.7
17.5°	1128.5	1125.3	1120.2	1124.0	1120.8
20°	1103.7	1099.9	1091.6	1095.5	1092.3
22.5°	1073.9	1068.8	1063.1	1063.1	1058.6
25°	1040.2	1036.4	1027.5	1025.6	1020.6
27.5°	1004.1	1000.9	989.5	986.3	977.4
30°	963.4	959.0	946.9	936.8	929.2
32.5°	918.4	915.2	898.7	885.4	874.6
35°	873.9	866.3	848.6	829.5	820.6
37.5°	821.9	816.2	794.0	770.5	758.4
40°	769.9	762.9	736.9	710.8	698.1
42.5°	713.4	707.0	682.3	651.2	637.8
45°	662.6	652.4	622.6	589.0	576.3
47.5°	606.8	596.0	564.2	528.7	514.1
50°	547.7	540.7	507.7	473.5	462.7
52.5°	495.0	484.3	453.2	419.5	408.1
55°	444.9	434.8	401.7	370.0	359.9
57.5°	394.8	383.3	354.8	326.2	316.1
60°	347.8	336.4	308.5	285.0	278.6
62.5°	305.3	292.6	267.8	249.4	245.0
65°	262.1	253.9	232.3	219.0	216.4
67.5°	225.9	215.8	198.7	192.3	191.0
70°	192.9	186.0	171.4	169.5	169.5
72.5°	163.1	157.4	146.6	147.9	149.8
75°	136.5	132.6	126.3	128.8	132.6
77.5°	113.6	109.8	106.0	109.8	112.3
80°	92.0	88.2	87.6	90.8	92.7
82.5°	69.2	66.0	66.6	71.7	73.6
85°	48.2	46.3	45.1	50.8	51.4
87.5°	24.8	23.5	22.8	27.3	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)